## **Amendments to the Claims:**

The following listing of claims, in which deleted matter is either struck-through or enclosed in double brackets and added matter is underlined, replaces all prior versions and listings of claims in this application.

- 1. (Currently Amended) An explosive device capable of self-remediation, if the explosive device fails to detonate, said explosive device comprising:
  - a. a shell configured to allow water from the exterior thereof to enter the interior thereof;
    - b. a quantity of explosive material housed within said shell;
  - c. a quantity of microorganisms capable, when mobilized by contact with water, of bioremediating said quantity of explosive material-in said quantity thereof, said quantity of microorganisms being disposed in such proximity to said quantity of explosive material that if said explosive device fails to detonate as intended, mobilized microorganisms in said quantity thereof deactivate said explosive device by bioremediating said quantity of explosive material housed within said shell; and
  - d. a nutrient disposed in such proximity to said quantity of explosive material that said nutrient provides nourishment to mobilized microorganisms in said quantity thereof.
- 2. (Original) An explosive device as recited in Claim 1, further comprising a carrier dispersed throughout said quantity of explosive material.
- 3. (Original) An explosive device as recited in Claim 2, wherein said carrier is comprised of said nutrient.
- 4. (Currently Amended) An explosive device as recited in Claim 1, wherein microorganisms in said quantity thereof comprise microorganisms comprise a microorganism selected from the group of microorganisms consisting of Pseudomonas spp., Escherichia spp., Morganella spp., Rhodococcus spp., Comamonas spp., and denitrifying microorganisms.

- 5. (Currently Amended) An explosive device as recited in Claim 1, wherein microorganisms in said quantity thereof comprise of microorganisms comprise a microorganism in Pseudomonas spp. selected from the group of microorganisms consisting of aeruginosa, fluorescens, acidovorans, mendocina, and cepacia.
- 6. (Currently Amended) An explosive device as recited in Claim 1, wherein said quantity of microorganisms in said quantity thereof are among a plurality of types of microorganisms disposed in said such proximity to said explosive material, said plurality of types of microorganisms together defining a microorganism consortium.
- 7. (Currently Amended) An explosive device as recited in Claim 1, wherein said <u>microorganisms correspond</u> <del>microorganism consortium corresponds to the microorganism consortium identified at the American Type Culture Collection by ATCC Designation No. 55784.</del>
- 8. (Original) An explosive device as recited in Claim 1, wherein the explosive material is selected from the group of explosive materials consisting of inorganic nitride explosives, organic nitroaromatic explosives, organic nitramine explosives and organic nitric ester explosives.
- 9. (Original) An explosive device as recited in Claim 1, wherein the explosive material is selected from the group of explosive materials consisting of trinitrotoluene, hexanitrostilbene, hexanitroazobenzene, diaminotrinitrobenzene and triaminotrinitrobenzene, cyclotrimethylene trinitramine, cyclotetramethylene tetranitramine, nitroguanidine, 2,4,6-trinitrophenylmethylnitramine, pentaerythritol tetranitrate, ammonium nitride, nitroglycerine and ethylene glycol dinitrate.
- 10. (Currently Amended) An explosive device as recited in Claim 1, wherein the microorganisms in said quantity-thereof of microorganisms are mobile.
- 11. (Currently Amended) An explosive device as recited in Claim 1, wherein said quantity of microorganisms in said quantity thereof are dehydrated.

- 12. (Currently Amended) An explosive device as recited in Claim 1, wherein said quantity of microorganisms in said quantity thereof are freeze dried.
- 13. (Original) An explosive device as recited in Claim 1, wherein said nutrient comprises a nutrient selected from the group of nutrients consisting of trace elements, carbon, nitrogen, and phosphate.
- 14. (Original) An explosive device as recited in Claim 1, wherein said nutrient comprises a casamino acid.
- 15. (Currently Amended) An explosive device as recited in Claim 1,—further comprising a wherein the shell containing said quantity of explosive material[[,]]-said shell being enabling of is configured to enable water flow from the exterior of said shell into the interior thereof to contact said quantity of explosive material.
- 16. (Original) An explosive device capable of self-remediation, if the explosive device fails to detonate, said explosive device comprising:
  - a. a shell configured to allow water from the exterior thereof to enter the interior thereof;
    - b. a quantity of explosive material housed within said shell;
  - c. a nutrient intermixed throughout said quantity of explosive material;
  - d. a quantity of microorganisms capable, when mobilized, of receiving nourishment from said nutrient and of bioremediating explosive material in said quantity thereof, said quantity of microorganisms being so intermixed throughout said quantity of explosive material that if said explosive device fails to detonate as intended, mobilized microorganisms in said quantity thereof deactivate said explosive device by bioremediating said quantity of explosive material housed within said shell.

- 17. (Original) An explosive device as recited in Claim 16, further comprising a carrier dispersed throughout said quantity of explosive material.
- 18. (Original) An explosive device as recited in Claim 17, wherein said carrier is comprised of said nutrient.
- 19. (Original) An explosive device as recited in Claim 16, wherein said nutrient comprises a nutrient selected from the group of nutrients consisting of trace elements, carbon, nitrogen, and phosphate.
- 20. (Original) An explosive device as recited in Claim 16, wherein said nutrient comprises a casamino acid.
- 21. (Currently Amended) An explosive device as recited in Claim 16, wherein said quantity of microorganisms-in said quantity thereof comprise comprises a microorganism selected from the group of microorganisms consisting of Pseudomonas spp., Escherichia spp., Morganella spp., Rhodococcus spp., Comamonas spp., and denitrifying microorganisms.
- 22. (Currently Amended) An explosive device as recited in Claim 16, wherein said quantity of microorganisms in said quantity thereof comprise comprises a microorganism in Pseudomonas spp. selected from the group of microorganisms consisting of aeruginosa, fluorescens, acidovorans, mendocina, and cepacia.
- 23. (Currently Amended) An explosive device as recited in Claim 16, wherein said microorganisms in said quantity thereof are among a plurality of types of microorganisms intermixed throughout said quantity of explosive material, said plurality of types of microorganisms together defining a microorganism consortium.
- 24. (Currently Amended) An explosive device as recited in Claim 16, wherein said <u>microorganisms comprise a microorganism consortium corresponds corresponding</u> to the microorganism consortium identified at the American Type Culture Collection by ATCC Designation No. 55784.

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- 25. (Original) An explosive device as recited in Claim 16, wherein the explosive material is selected from the group of explosive materials consisting of inorganic nitride explosives, organic nitroaromatic explosives, organic nitramine explosives, and organic nitric ester explosives.
- 26. (Original) An explosive device as recited in Claim 16, wherein said explosive material is selected from the group of explosive materials consisting of trinitrotoluene, hexanitrostilbene, hexanitroazobenzene, diaminotrinitrobenzene, triaminotrinitrobenzene, cyclotrimethylene trinitramine, cyclotetramethylene tetranitramine, nitroguanidine, 2,4,6-trinitrophenylmethylnitramine, pentaerythritol tetranitrate, ammonium nitride, nitroglycerine, and ethylene glycol dinitrate.
- 27. (Currently Amended) An explosive device as recited in Claim 16, wherein said quantity of microorganisms in said quantity thereof are mobile.
- 28. (Currently Amended) An explosive device as recited in Claim 16, wherein said quantity of microorganisms-in-said quantity thereof are dehydrated.
- 29. (Currently Amended) An explosive device as recited in Claim 16, wherein said quantity of microorganisms in said quantity thereof are freeze dried.
- 30. (Currently Amended) An explosive device as recited in Claim 16, further emprising a wherein the shell containing said quantity of explosive material[[,]] said shell being enabling of is configured to enable water flow from the exterior thereof into the interior thereof to contact—with said quantity of explosive material.
- 31. (Original) An explosive device as recited in Claim 30, wherein said shell is water permeable.
- 32. (Original) An explosive device as recited in Claim 30, wherein said shell has an open end.

- 33. (Original) An explosive device as recited in Claim 30, wherein a hole is formed in said shell communicating from said exterior of said shell to the interior thereof.
- 34. (Original) An explosive device as recited in Claim 33, wherein said hole formed in said shell comprises an access opening for detonation wires.
- 35. (Currently Amended) An explosive device capable of self-remediation, if the explosive device fails to detonate, said explosive device comprising:
  - a. an elongated shell having an exterior and a hollow interior, said shell being configured to allow water from said exterior thereof to enter said interior thereof;
    - b. a quantity of explosive material housed within said shell;
  - c. a plurality of carrier pellets intermixed throughout said quantity of explosive material;
  - d. a quantity of microorganisms capable, when mobilized by contact with water, of bioremediating explosive material in said quantity thereof, said quantity of microorganisms being disposed within said plurality of carrier pellets; and
  - e. a nutrient disposed within said plurality of carrier pellets and being capable of providing nourishment to microorganisms in said quantity thereof.
- 36. (Currently Amended) An explosive device as recited in Claim 35, wherein:
  - a. <u>said\_microorganisms-in-said-quantity-thereof</u> comprise Pseudomonas spp.;
  - b. the explosive material comprises pentaerythriol tetranitrite pentaerythritol tetranitrate;
    - c. said carrier pellets are comprised of foam cellulose; and
    - d. said nutrient comprises a casamino acid.

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- 37. (Original) An explosive device as recited in Claim 35, wherein said nutrient comprises a nutrient selected from the group of nutrients consisting of starch, flour, bran, milk, milk sugar, and minimal medium glycerol.
- 38. (Original) An explosive device as recited in Claim 35, wherein said nutrient comprises a starch.
- 39. (Original) An explosive device as recited in Claim 35, wherein said carrier pellets are comprised of said nutrient.